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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-MS-PMC-2016-17

Date : 09.11.2016

ATTERBERG LIMITS TEST FOR GSB (CLOSE GRADED)
IS : 2720 (Part - 5)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri.Muraliswamy,** Contractor, Bangalore.

Name of work : Improvements and Asphalting of Ward Roads & Connecting Roads in Ward No. 13 of Sh Sub Division Dasarahalli zone. Package No. DZ 2016-16-(01) (17 works), BBMP, Banglore

Reference : EE/DD/PACKAGE/WO/77/2016-17 Dated:23.10.2016

Date of Testing : 09.11.2016

As per MORTH Table : 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

As per IS: 2720 Part 5

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported immediately.

For Civil Expert

Authorised Signature

AE-13

9/11

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Reference : EE/DD/PACKAGE/WO/77/2016-17 Dated:23.10.2016

Date of Testing : 09.11.2016

As per MORTH Table : 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	23.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

As per IS: 2720 Part 5

Note:
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Job No.: CECTC-MS-PMC-2016-17

Date : 09.11.2016

GRADATION FOR GSB (CLOSE GRADED)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri.Muraliswamy,** Contractor, Bangalore.

Name of work : Improvements and Asphalting of Ward Roads & Connecting Roads in Ward No. 13 of Shettyhalli Sub Division Dasarahalli zone. Package No. DZ 2016-16-(01) (17 works),

Reference : EE/DD/PACKAGE/WO/77/2016-17 Dated:23.10.2016

Date of Testing : 09.11.2016

Sample Source : GSB Mix Plant Bangalore. **Oven Dry Wt (gm) :** 13200

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75.0	0	0	0.00	0	100
53.0	210	210	1.59	98.41	80-100
26.50	2460	2670	20.23	79.77	55-90
9.50	3201	5871	44.48	55.52	35-65
4.75	2750	8621	65.31	34.69	25-55
2.36	1450	10071	76.30	23.70	20-40
0.425	1190	11261	85.31	14.69	10-25
0.075	1240	12501	94.70	5.30	3-10
Total	13200				

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading I

AC-13

Note:
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Authorised Signature

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Job No.: CECTC-MS-PMC-2016-17

Date : 09.11.2016

GRADATION FOR GSB (CLOSE GRADED)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri.Muraliswamy,** Contractor, Bangalore.

Name of work : Improvements and Asphalting of Ward Roads & Connecting Roads in Ward No. 13 of Shettyhalli Sub Division Dasarahalli zone. Package No. DZ 2016-16-(01) (17 works),

Reference : EE/DD/PACKAGE/WO/77/2016-17 Dated:23.10.2016

Date of Testing : 09.11.2016

Sample Source : GSB Mix Plant Bangalore. **Oven Dry Wt (gm) :** 13200

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75.0	0	0	0.00	0	100
53.0	220	220	1.67	98.33	80-100
26.50	2540	2760	20.91	79.09	55-90
9.50	3160	5920	44.85	55.15	35-65
4.75	2845	8765	66.40	33.60	25-55
2.36	1460	10225	77.46	22.54	20-40
0.425	1135	11360	86.06	13.94	10-25
0.075	1250	12610	95.53	4.47	3-10
Total	13200				

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading I

Note:

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For Civil Expert

Authorised Signature

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Job No.: CECTC-MS-PMC-2016-17 **Date:** 09.11.2016

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri.Muraliswamy,** Contractor, Bangalore.
Name of the Work	Improvements and Asphalting of Ward Roads & Connecting Roads in Ward No. 13 of Shettyhalli Sub Division Dasarahalli zone. Package No. DZ 2016-16-(01) (17 works), BBMP, Banglore.
Reference	EE/DD/PACKAGE/WO/77/2016-17 Dated:23.10.2016
Location	At Site
Type of Mix	Wet Mix macadam
Date of Testing	09.11.2016

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	388	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	305	304	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.35	21.39	21.85	**21.53**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory
→ The results indicated above are based on the tests carried out on the samples received in the laboratory
→ Any Query regarding the report must be reported within 90 days from the date of testing.

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Job No.: CECTC-MS-PMC-2016-17 Date: : 09.11.2016

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri.Muraliswamy,** Contractor, Bangalore.

Name of Work : Improvements and Asphalting of Ward Roads & Connecting Roads in Ward No. 13 of Shettyhalli Sub Division Dasarahalli zone. Package No. DZ 2016-16-(01) (17 works), BBMP, Banglore.

Reference : EE/DD/PACKAGE/WO/77/2016-17 Dated:23.10.2016

Date of Testing : 09.11.2016

Material Type : Wet Mix Macadam

Sample Location : At Site

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit	22.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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For Civil Expert

Authorised Signature